

What is Claimed:

1. A method of generating code for Enterprise JavaBean (EJB) components from a business process, comprising the steps of:

- 5 graphically modeling said business process using a UML drawing tool to provide an UML model having a plurality of EJB Classes;
defining relationships between said plurality of EJB classes;
stereotyping each of said plurality of EJB classes into one or more EJB components;
transforming each of said EJB components into EJB source code.

10 2. The method of claim 1, further comprising the step of compiling said EJB source code to generate EJB application in accordance with deployment properties.

3. The method of claim 2, further comprising the step of deploying said EJB application to a server using one of the following: bean managed persistence or container managed persistence.

15 4. The method of claim 1, wherein the step of stereotyping stereotypes an EJB class into at least one of the following EJB component: Belonging, Session, Entity, Configurable Entity, Business Policy and Workflow.

5. The method of claim 4, wherein an Entity EJB component comprises at least one interface and two EJB classes.

20 6. The method of claim 5, wherein said Entity EJB component being associated with a Primary Key class and a Value class.

7. The method of claim 1, wherein each EJB component includes at least one of the following: name, stereotype, attribute and method.

25 8. The method of claim 7, wherein each attribute includes a pair of accessor methods.

9. The method of claim 1, wherein said relationships includes at least one of the following: inheritance and aggregation.

10. The method of claim 9, wherein said aggregation includes multiplicity.

30 11. The method of claim 10, further comprising the steps of:
determining if said multiplicity relationship is one to many; and

stereotyping said aggregation relationship into a collection type if it is determined that said multiplicity relationship is one to many.

12. The method of claim 11, wherein said collection type includes one of the following: Set, Array, List or Map.

5 13. The method of claim 1, wherein each EJB component is a Smart Component having at least one Smart Feature.

14. The method of claim 13, wherein said Smart Feature includes one of the following: SmartKey, SmartHandle and SmartValue.

15. The method of claim 1, wherein said Smart component is an eBusiness Smart
10 Component.

16. The method of claim 1, wherein the step of transforming includes the step generating said EJB codes according to a Code Template Dictionary.

17. The method of claim 16, wherein said Code Template Dictionary includes key-value pair entries.

15 18. The method of claim 17, wherein values of said Code Template Dictionary represent EJB code templates.